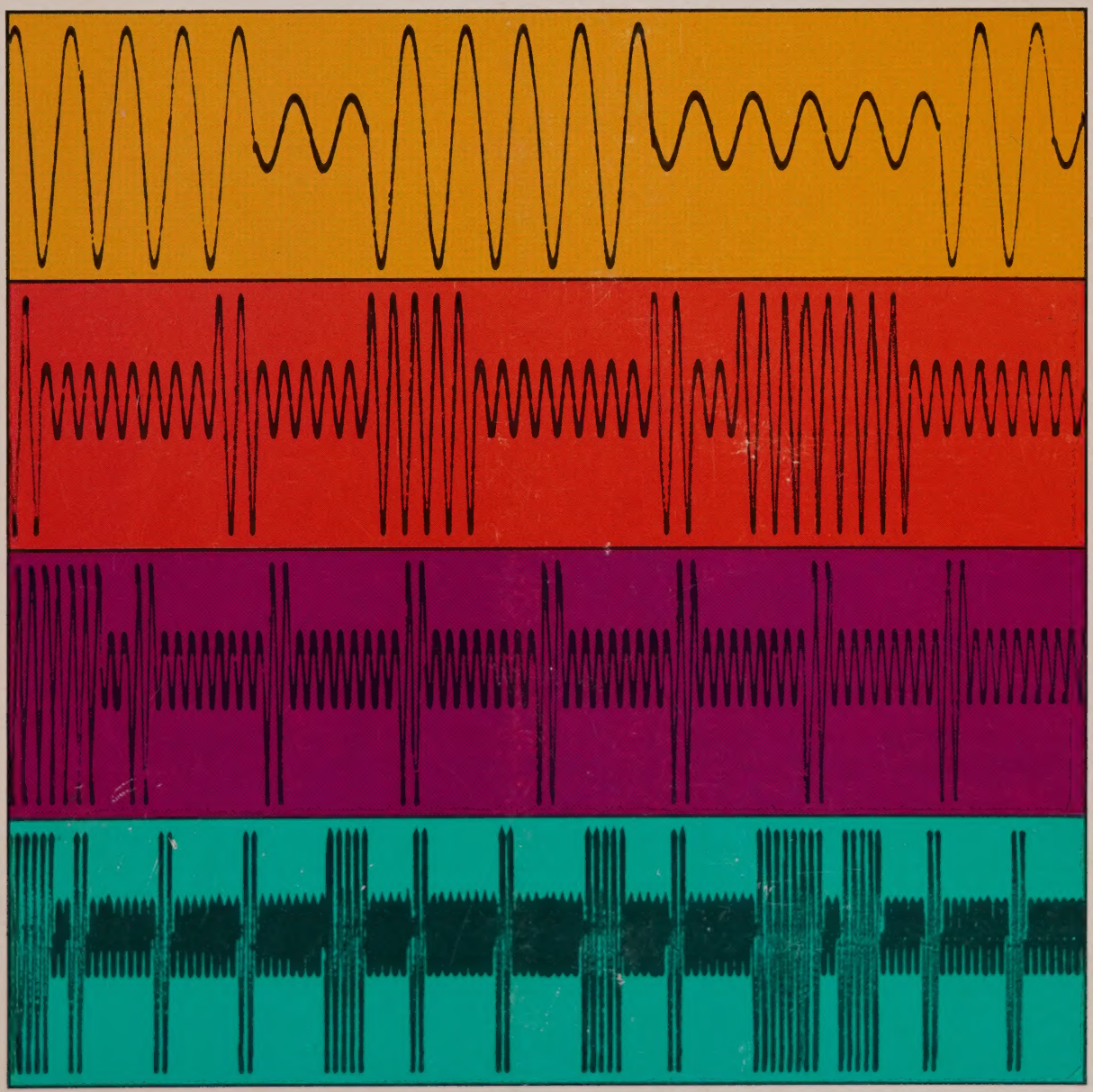
TIMING/SYSTEMS

INSTRUCTION MANUAL

SD 8580
Remote Display



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SYSTRON-DONNER TIMING PRODUCTS

MODEL 8580

REMOTE TIME-OF-DAY DISPLAY

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Model 8580 Remote Display Unit	62225-7000
Readout/Decoder BCD Input	62122-7106
Readout Assy 0.79 centers	62122-4106

1. BASIC FUNCTIONS

The Model 8580 Remote Time-of-Day Display (RD) provides an in-line decimal numerical gas tube readout with 0.6 inch high characters representing hours, minutes, and seconds. The display can be viewed at distances up to 30 feet in normal ambient lighting conditions. A polarizing filter is used to reduce internal reflections to a level that maintains good definition, even under high ambient lighting conditions. A fine mesh screen is also employed to prevent R.F. radiation from the unit.

The display is designed to be driven by the parallel 4 line BCD output of the Model 8520 or 8521 Time Code Generator (TCG) or other equivalent source and converts it to 10 line information for display. The output at J2 of the Model 8520 or 8521 TCG is the input to J1 of the Model 8580, on a pin to pin basis. The Model 8580 RD will accept as inputs the positive TRUE outputs from other sources at any level between +3.6 and +5 volts.

2. PHYSICAL DESCRIPTION

The Model 8580 RD unit is designed for standard aircraft console mounting. This unit has front panel dimensions of 5 3/4 inches wide by 2 5/8 inches high. Depth behind the front panel is 4 3/8 inches including connector (but, without the mating plug). Mating connector is PT06A-16-26S (Supplied).

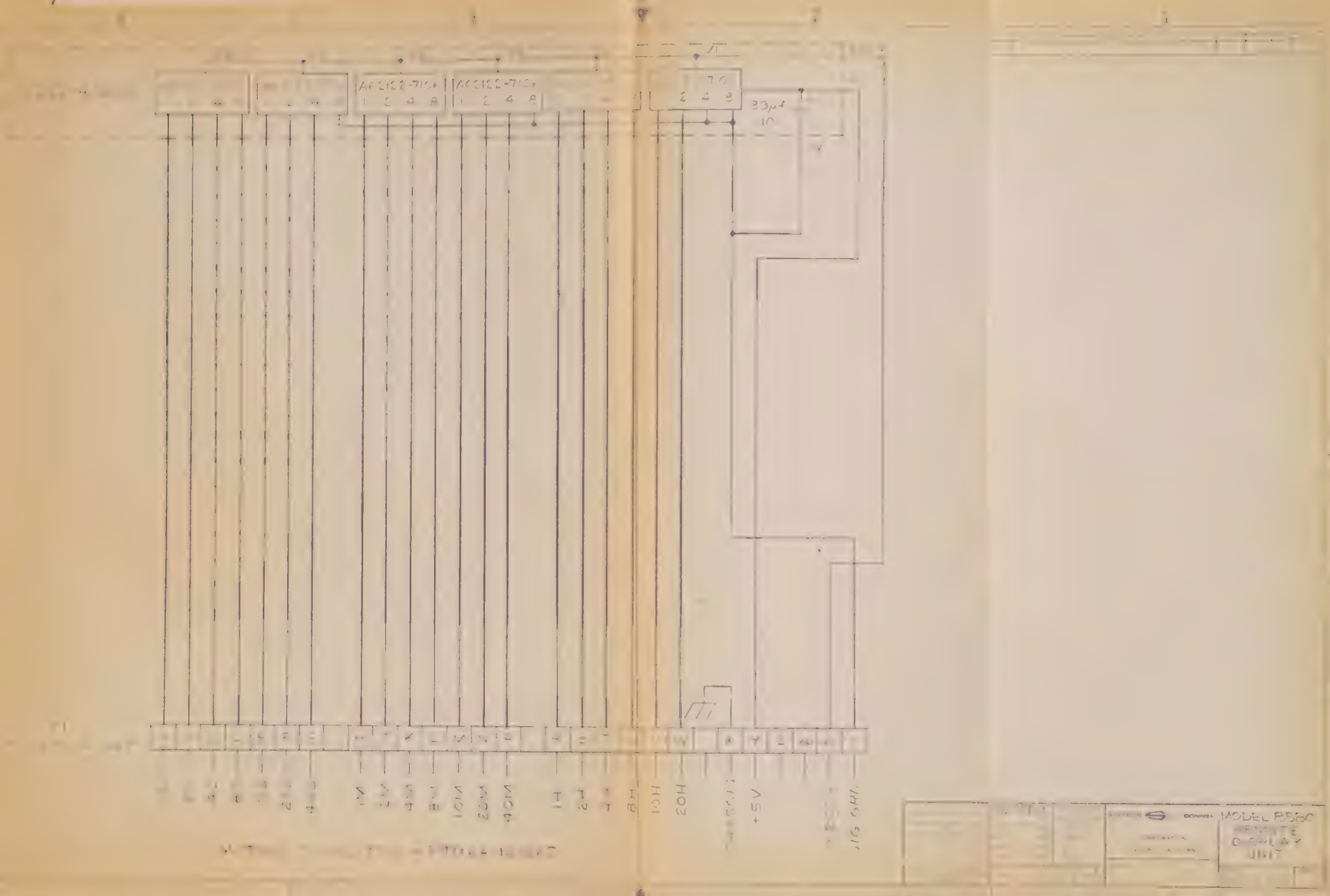
3. ELECTRICAL DESCRIPTION

The Model 8580 RD receives its required power from the driving 8520 or 8521 TCG. Numerical indicator tube anode voltage of 200 V dc is brought in on J1 pin b. The +5 volts supply for the Decoder Chips is supplied at J1 pin y.

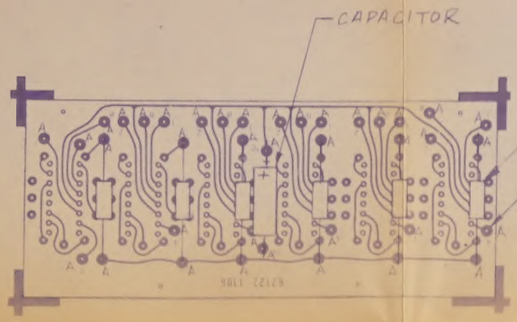
TABLE 1.1

PARTS LIST

Part No.	Description	No. Used
NL 8422/5991	Readout Tube Long Life Rectangular	6
C 62122-1106	Printed Circuit Board (6) digit	1
1907	Intregrated Circuit SN 7441	6
X-0161	Socket Readout Tube	6
E-0277	Terminal	32
C-0902	Capacitor 39 ufd 10 V	1
R-0292	Resistor 10 kΩ 5% 1/2 w	6


AR2162-7104
1 2 4 8
AR2162-7104
1 2 4 8
33µf
10
+5V
MODEL R560
REMOTE
DISPLAY
UNIT

REVISIONS					
ISSUE	DESCRIPTION	SER. NO.	ECO NO.	DATE	APP. BY


CAPACITOR
RESISTOR PER PARTS LIST
SWAGE ON TERM. FROM THIS SIDE ON PADS MARKED A
ORIENTATION
SOCKET TO BE PARALLEL WITH BOARD SURFACE
IC
NIXIE SOCKET LESS PIN 12
REMOVE PIN 12 FROM ALL SOCKETS PRIOR TO ASSY

2	62122-1107	3	20	3	0	3	62122-8107
1	62122-1106	6	38	6	1	6	62122-8106
GR NO	P.C. B.D.	SOCKET	TERM	I C	CAP	RES	P/L
		QTY REQ'D.					

188-632 62112-4401 69-8/S 62112-4101	1/1		SEE CHART FOR P/L	READOUT ASSY (.79 CENTERS) 62122-4106

WARRANTY

Systron-Donner instruments are warranted during a period of one year from date of shipment to original purchaser to be free from defects in material and workmanship. This warranty does not apply to vacuum tubes, except as they are warranted by tube manufacturers. The liability of Seller under this warranty is limited to replacing or repairing any instrument or component thereof which is returned by Buyer at his expense during such period and which has not been subjected to misuse, neglect, improper installations, repair, alteration, or accident. Seller shall have the right of final determination as to the existence and cause of a defect. In no event shall Seller be liable for collateral or consequential damages. This warranty is in lieu of any other warranty, express, implied or statutory, and no agreement extending or modifying it will be binding upon Seller unless in writing and signed by a duly authorized officer.

RECEIVING INSPECTION

Every Systron Donner instrument is carefully inspected and is in perfect working order at the time of shipment. Each instrument should be checked as soon as received. If the unit is damaged in any way or fails to operate, a claim should immediately be filed with the transportation company.

REPAIRS

Whenever a Systron-Donner instrument requires service, the nearest Systron-Donner representative should be contacted; all representatives will provide immediate service or arrange factory returns when necessary.

Please specify both model and serial number in all correspondence concerning Systron-Donner instruments. Address all inquiries on operation or applications to your nearest sales representative or Sales Manager, Instruments, Systron-Donner Corporation, 888 Galindo Street, Concord, California.

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